



# Agriculture

## PATHWAY: Food Products and Processing Systems

Are you interested in food production or the processing and packaging of food?  
 What about the discovery of new food sources or the analysis of food content?

**COURSES IN YELLOW** are pathway concentrator courses and must be finished with a **C- average or above** to meet Indiana's 3<sup>rd</sup> requirement to graduate.  
**COMPLETE ALL COURSES** below with a B- or above to graduate with **Academy recognition**.

COURSE NAME	GRADES AVAILABLE	LENGTH	DUAL (COLLEGE) CREDITS POSSIBLE	FULFILLS CORE 40 CREDITS AS...
Introduction to Agriculture, Food & Natural Resources	8, 9, 10	Year		
Food Science <i>To take in 9<sup>th</sup> grade, must have taken Intro to Agriculture</i>	9, 10, 11, 12	Year	3	
<b>ADVANCED LIFE SCIENCE: FOODS</b> <i>Only offered even graduation years</i> (REQUIRED CONCENTRATOR COURSE)	<b>11, 12</b>	<b>YEAR</b>	<b>3</b>	<b>SCIENCE &amp; QUANTITATIVE REASONING</b>
<b>AGRIBUSINESS MANAGEMENT</b> (REQUIRED CONCENTRATOR COURSE)	<b>11, 12</b>	<b>YEAR</b>	<b>3</b>	<b>QUANTITATIVE REASONING</b>

Must earn a specified certification or dual credit to graduate with Academy recognition. Apply your senior year.

Check out the list below for more courses related to this pathway - see the Course of Study Guide for details.

- Advanced Nutrition and Wellness
- Biology II
- Chemistry I and II
- CTSO Leadership Development in Action- Agriculture
- Culinary Arts and Hospitality I
- Culinary Arts and Hospitality II

- **Future Farmers of America Club (FFA)**
- Integrated Chemistry and Physics
- Intro to Culinary Arts and Hospitality
- Nutrition and Wellness
- Supervised Agricultural Experience
- Work-Based Learning Capstone

Possible Careers Requiring 0-4 Years of Additional Training or Education	
<ul style="list-style-type: none"> <li>• Agricultural Communications Specialist</li> <li>• Agricultural Salesperson</li> <li>• Food and Drug Inspector</li> <li>• Food Meal Supervisor</li> </ul>	<ul style="list-style-type: none"> <li>• Food Processor</li> <li>• Meat Cutter-Meat Grader</li> <li>• Meat Processor</li> <li>• Produce Buyer</li> </ul>

Possible Careers Requiring 4+ Years of Additional Training or Education	
<ul style="list-style-type: none"> <li>• Agriculture Educator/Extension Agent</li> <li>• Bacteriologist</li> <li>• Biochemist-Nutritionist</li> <li>• Bioengineer</li> <li>• Flavor Technologist</li> </ul>	<ul style="list-style-type: none"> <li>• Food Scientist</li> <li>• Meat Science Researcher</li> <li>• Microbiologist</li> <li>• Nutritionist/Dietitian</li> <li>• Quality Control Specialist</li> </ul>

Local Industry Partners		
Big Boss BBQ Creighton Brothers	Ivy Tech Community College Maple Leaf Farms	Miller Poultry Par-Kan Co.

THREE GRADUATION REQUIREMENTS	
THREE REQUIREMENTS	OPTIONS (Pick <u>at least one</u> in <b>EACH</b> box)
<b>1</b> <b>HIGH SCHOOL DIPLOMA</b> Must complete <u>at least one</u> item Check all that apply	<input type="checkbox"/> Core 40 <input type="checkbox"/> Core 40 with Academic Honors <input type="checkbox"/> Core 40 with Technical Honors
<b>2</b> <b>EMPLOYABILITY SKILLS</b> Must complete <u>at least one</u> item Check all that apply	<input type="checkbox"/> Project-Based Learning Experience <input type="checkbox"/> Service-Based Learning Experience <input type="checkbox"/> Work-Based Learning Experience
<b>3</b> <b>POSTSECONDARY-READY COMPETENCIES</b> Must complete <u>at least one</u> item Check all that apply	<input type="checkbox"/> Complete: Concentrator courses and their prerequisite courses (in <b>YELLOW</b> ) from a pathway Maintain a C- average minimum in the <b>CONCENTRATOR COURSES</b> for that pathway Chosen pathway: _____ <input type="checkbox"/> Core 40 with Technical Honors diploma <input type="checkbox"/> Core 40 with Academic Honors diploma <input type="checkbox"/> AP/Dual Credit: Must earn a C- <u>average</u> or higher in at least three courses <input type="checkbox"/> ACT with college-ready benchmarks <input type="checkbox"/> SAT with college-ready benchmarks <input type="checkbox"/> ASVAB with minimum AFQT score to qualify for placement into one of the branches of the US military <input type="checkbox"/> State- and Industry-recognized credential or certification <input type="checkbox"/> State-, Federal-, or Industry-recognized apprenticeship

# \_\_\_\_\_ 's Four-Year Plan

GRAD	English	Math	Science	Social Studies	Physical Education/ Health or 3 FACS	Elective Courses	Pathway and Academy Courses	Summer School Credits
		Fill blanks with electives	Fill blanks with electives	Fill blanks with electives	Fill blanks with electives		Fill blanks with electives	
7/8	Any middle school credits							
9	English 9	Algebra I	Biology I	World History Civ. A or B (9-10th grade)	Preparing for College & Careers			Session A before 9 <sup>th</sup> grade
	(continued)	(continued)	(continued)	World History Civ. A or B (9-10th grade)	PE credit			Session B before 9 <sup>th</sup> grade
10	English 10	Geometry	Chemistry I, or ICP, or Physics I		PE credit or waiver			Session A before 10 <sup>th</sup> grade
	(continued)	(continued)	(continued)		Health or 2 other qualifying FACS credits			Session B before 10 <sup>th</sup> grade
11	English 11	Algebra II	Qualifying Core 40 science of your choice	U.S. History				Session A before 11 <sup>th</sup> grade
	(continued)	(continued)	(continued)	(continued)				Session B before 11 <sup>th</sup> grade
12	English 12	Quantitative reasoning or math recommended		Government				Session A before 12 <sup>th</sup> grade
	(continued)			Economics (fulfills requirement for quantitative reasoning)				Session B before 12 <sup>th</sup> grade